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Provisional Sums							
	PS	Provisional Sum	L.S.	1	500,000.00	Five hundred thousands only.	500,000
TOTAL BID PRICE - USD\$ (IN FIGURES)							36,849,465.88
TOTAL BID PRICE IN WORDS THIRTY SIX MILLION SIX HUNDRED AND FORTY NINE THOUSANDS FOUR HUNDRED AND SIXTY FIVE POINT EIGHTY EIGHT ONLY							

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The Construction Group, Inc.
 10000 1st Avenue, Suite 100
 Dallas, Texas 75243-1000
 (214) 343-1000
 Fax: (214) 343-1001
 Email: info@constructiongroup.com
 Website: www.constructiongroup.com

SZSP (USAID) Southern Sudan

Provisional Construction Ltd

Indicative BOO - Page 5 of 5

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Juba - Nimule Road Package 1, 0+000 - 55+000

Section IX
Section IX
Schedule 1

Southern Sudan

SCHEDULE 1 MAJOR ITEMS OF CONSTRUCTION PLANT								
Description (Type, Model, Make)	Number of each	Year of Manufacture	New (N) or Used (U)	Owned (O) or Leased (L)	Est. CIF Value USD	Power Rating	Capacity Tons or m ³	Transpo rt to Site
1. Quarry & Aggregate Processing								
1.1 Dumpers	2	2005	U	O	64,426		14	Yes
1.2 Excavators	1	2005	U	O	1,06,677		100 cum/hr.	yes
1.3 Dozers	1	2005	U	O	89,500		170 cum/hr	Yes
1.4 Loaders	1	2005	U	O	1,54,686		120 cum/hr	Yes
1.5 Compressor	1	2005	U	O	50,300		Big - Truck mounted	Yes
1.6 Crawler Drill	1	2005	U	O	1,34,573			Yes
1.7 Crusher	1	2005	U	O	3,61,025		150 Tons/hr.	Yes
2. Rock Excavation								
2.1 Dumpers	3	2005	U	O	96,639		14	Yes
2.2 Excavators	2	2008	N	O	2,13,354		100 cum/hr	Yes
2.3 Rock Breaker	2	2005	U	O	13,700			
3. Excavation in earth work								
3.1 Dumpers	2	2008	N	O	64,426		14	Yes
3.2 Excavator	1	2005	U	O	1,06,677		100 cum/hr.	yes
4. Construction of embankment, sub-grade, sub-base, base course with natural granular material (morrum) from borrow area including their Haulage								
4.1 Dumpers	25	2008	N	O	8,05,325		14	Yes
4.2 Water Tankers	4	2008	N	O	91,200		15,000 KL	
4.3 Excavators	3	2008	N	O	3,20,031		100 cum/hr.	Yes
4.4 Dozers	3	2008	N	O	2,68,500		170 cum/hr.	Yes
4.5 Graders	3	2008	N	O	2,17,986		170 cum/hr	Yes
4.6 Rotavators	2	2008	N	O	1,45,234		170 cum/hr	
4.7 Loader	1	2008	N	O	1,54,686		120 cum/hr	

SISP (USAID) Southern Sudan

Construction Plant & Equipment Schedule - 1

4.2 Graders	3	2008	N	O	1,53,111	180 cum/hr	Yes
5. Concrete							
5.1 Concrete Batch Plant	1	2008	N	O	22,000	5 cum/hr	Yes
5.2 Hume Pipe manufacturing unit	1	2005	U	O	34,860	900 mm & 1200 mm	Yes
5.3 Needle Vibrators	4	2008	N	O	20,000	20 mm to 40 mm needle	Yes
6. Pavement Marking - Stripping							
6.1 Pavement marking machine	1	2007	U	O	19,008		Yes
6.2 compressor	1	2005	U	O	50,300	Big - Truck mounted	Yes
7. Asphalt work							
7.1 Dumpers	5	2008	N	O	1,61,065	14 cum	yes
7.2 Water Tankers	1	2005	U	O	22,800	15,000 KL	
7.3 Loader	1	2008	N	O	1,54,686	120 cum/hr	Yes
7.4 Bitumen sprayer	2	2005	U	O	18,512		Yes
7.5 Broomers	2	2005	U	O	15,160		Yes
7.6 Compressor	1	2005	U	O	50,300	Big - Truck mounted	Yes
7.7 Rollers - PTR 220	2	2008	N	O	1,08,660	PTR 220	Yes
8. Miscellaneous							
8.1 Plate compactors	2	2008	N	O	10,000		Yes
8.2 Generators 380 KVA	1	2005	U	O	28,846	380 KVA	Yes
8.3 Generators 70 KVA	4	2005	U	O	49,660	70 KVA	Yes

SISP (USAID) Southern Sudan

Construction Plant & Equipment Schedule - 1 of 2

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SISP (USAID) Southern Sudan

Construction Plant & Equipment Schedule - 1 of 1

Key Personnel Candidate Data Sheet

Position : Director

Candidate
information

Name of Candidate : Mr. A.S.Rao

Date of Birth
07-10-1944

Professional Qualifications : B.E. (Mech)

Present
Employment

Name of Employer : M/s Progressive Constructions Limited

Address of Employer: 7th floor, Raghava Block, Raghava Ratna Towers,
Chirag Ali Lane, Nampally, Hyderabad - 500 001,
Andhra Pradesh, IndiaTelephone:
91-40 - 2320 4684 / 5 / 6Contract :
Manager (HR)

Fax : 91-40 - 2320 4687 / 8

E-mail
hr.hyd@progressiveconstructions.comPresent Job title of candidate
DirectorYears with Present employer
20 years

English Language Ability: YES

Summarize Professional experience in reverse chronological order. Indicate particular
technical and managerial experience relevant to the project

From	To	Company/Project/Position/Relevant Technical/Management experience
------	----	--

1993	Till Date.	Company	Progressive Constructions Ltd.,
		Project	Head Office
		Position	Director
		Experience	Machinery Procurement for different sites Interacting with machinery suppliers and suppliers and sites regarding performance Export of Machinery and spare parts for foreign projects
1988	1993	Company	Progressive Constructions Ltd.,
		Project	Progressive Aluminums Ltd.,
		Position	Executive Director
		Experience	Progressive Aluminums was promoted by Progressive Constructions Limited with a project cost of Rs. 10.00 Crores. I was independently responsible for setting up the unit on turnkey basis. Activities involved are selection of site, Machinery, Construction of Buildings, erection, commission and operation of the plant
1966	1987	Company	Hyderabad Industries Ltd.
		Project	Ballabgarh
		Position	Divisional Manager
		Experience	Incharge of asbestos cement division which is a profit centre in the company. Job involves operation of 1 no. asbestos cement pressure pipe plant, 2 nos. asbestos cement sheet plants and all associated activities like purchase, stores, maintenance, etc.

Key

SCHEDULE 2
KEY PERSONNEL

Headquarters Personnel

Director : Mr. A.S.Rao
Chief General Manager : Mr. Ch.S.Gopal

Site and Site Office Personnel

Project Manager : Mr. K.Suresh Kumar
Deputy Project Manager : Mr. S.R.Tagore
Site Superintendent : Mr. Y.Ravindra Babu
Deputy Site Superintendent (s) : Mr. Anil Kumar Chaubey
Site Construction Engineers : Mr. K.Subramanyam
Mr. Mujahid Ahmed Kotwal
Chief Quantity Surveyor : Mr. V. Rushindranath Reddy
Chief Surveyor : Mr. B.Venkata Ramanaiah
Quality Control Manager: Mr. Srikrishna Kumar
Quality Control Engineers : Mr. S.K.Sinha
Laboratory Supervisor : Mr. Awadh kishore Choudhary
Environmental Officer : Mr. Mukesh Kumar Sinha
Security Officer:
Traffic Management and Safety Officer: Mr. Mohammed Ghouse
Traffic Management and Safety Personnel: Mr. B.Ramaraao and Mr. P.V.Rao
Controls:

For Progressive Construction Ltd.

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Key Personnel Candidate Data Sheet			
Position : Director			
Candidate information	Name of Candidate : A.S.Rao		Date of Birth
	Professional Qualifications :		
Present Employment	Name of Employer : M/s Progressive Constructions Limited		
	Address of Employer: 7 th floor, Raghava Block, Raghava Ratna Towers, Chirag Ali Lahe, Nampally, Hyderabad – 500 001, Andhra Pradesh, India		
	Telephone: 91-40 – 2320 4684 / 5 / 6		Contract : Manager (HR)
	Fax : 91-40 – 2320 4687 / 8		E-mail hr.hyd@progressiveconstructions.com
	Present Job title of candidate Director		Years with Present employer years
	English Language Ability: YES		
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project			
From	To	Company/Project/Position/Relevant Technical/Management experience	
		Company	Progressive Constructions Ltd.,
		Project	
		Position	
		Experience	
		Company	Progressive Constructions Ltd.,
		Project	
		Position	
		Experience	
		Company	Progressive Constructions Ltd.,
		Project	
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		Company	Progressive Constructions Ltd.,
		Project	
		Position	
		Experience	

For Progressive Constructions Ltd.

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From	To	Company/Project/Position/Relevant Technical/Management Experience	
Oct-1997	Oct-2001	Company	Progressive Constructions Ltd.,
		Project	4- Lining of Mumbai - Ahmedabad Road Project (NH-8, 19 Kms)
		Position	Project Manager
		Experience	Planning and Execution of Work
Jan-1996	Oct-1997	Company	Progressive Constructions Ltd.,
		Project	4- Lining of Mathura Agra Road Project (NH-2, 22 Kms)
		Position	Sr. Engineer
		Experience	
Jan-1994	Jan-1996	Company	Progressive Constructions Ltd.,
		Project	Extension of Salariang Museum buildings and internal Roads at Hyderabad
		Position	Sr. Engineer
		Experience	Buildings and Roads
Oct-1992	Jan-1994	Company	Progressive Constructions Ltd.,
		Project	Construction of Andhra Bank Central Bank Building at Hyderabad
		Position	Site Engineer
		Experience	Execution of Buildings
Jun-1990	Oct-1992	Company	Progressive Constructions Ltd.,
		Project	Construction of SRRC Spinning Mills and Internal Roads, Sircilla, Andhra Pradesh
		Position	Site Engineer
		Experience	Execution of Building works
Dec-1989	Jun-1990	Company	Progressive Constructions Ltd.,
		Project	Construction of Raghava Ratna Towers, Hyderabad
		Position	Jr. Engineer
		Experience	Execution of Building works

For Progressive Constructions Ltd.
12/01

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Key Personnel Candidate Data Sheet

Position : Chief General Manager

Candidate Information	Name of Candidate: Mr. CH.S.Gopal	Date of birth: 01.06.1966
	Professional qualifications: B.Tech (Civil)	
Present employment	Name of employer: Progressive Constructions Ltd.	
	Address of employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Hyderabad Andhra Pradesh, India	
	Telephone: 91-40- 23204684 / 5 / 6	Contact (manager / personnel officer) Manager (HR)
	Fax : 91- 40-23204687/8	Telex
	Job title of candidate: Chief General Manager	Years with present employer: 09 Years
English Language Ability: YES		

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company	Project/Position/Relevant Technical and Management experience
Aug-2005	Till date	Progressive Constructions Ltd.,	<ul style="list-style-type: none"> 4-Laning of Km. 310 (Gulab Bagh Junctions) to Km. 267.50 (End of Araria town) on NH-57. (Package No. C-II/BR-1) 4-Laning of Km. 267.50 start of Araria Bypass from Forbesganj side to Km 230.00 (9th Km post of Forbesganj-Narpatganj section near Forbesganj on NH-57.(Package No. C-II/BR-2) Four Laning of Km. 30.00 to Km. 0.00 of Bijni to WB Border section of NH-31C in Assam (Package No. EW-II/AS-12) Balance works of 4-laning and Strengthening of the existing 2-lane highway section from Km. 250.50 to Km. 307.50 on NH-2 in UP (Contract Package B) (World Bank funded) 4-Laning from Km. 360.915 to Km. 401.00 of Gorakhpur - Gopalganj Section of NH-2 in Uttar Pradesh - India (Package No. LMNHP-EW-II/UP-2 (World Bank funded)

For Progressive Constructions Ltd.

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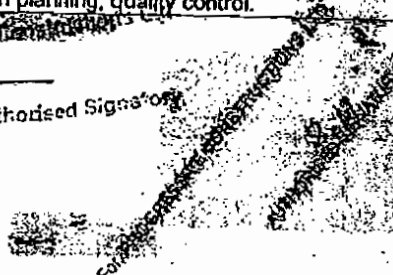
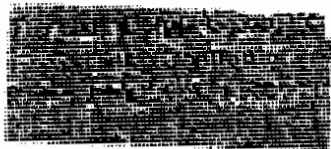
			<ul style="list-style-type: none"> 4-Laning from Km. 402.00 to Km. 480.00 of Gorakhpur - Gopalganj section of NH-28 in Bihar, India (Contract No. LMNHP-EW-II(WB)-10 (World bank funded) Four Laning and Strengthening of NH-28 from Km. 480.00 to Km. 520.00 of Gopalganj - Muzafarpur section (Contract No. LMNHP/12) (World Bank funded) Four Laning of Km. 410.00 to Km. 419.000 & Km. 470.000 to Km. 476.150 of Purnea - Gayakota Section of NH-31 in the State of Bihar. (EW - 4/BR) Widening to 4/6 lanes and strengthening of Existing 2-Lane carriageway from Km. 284.00 to Km. 338.000 (Ganjam - sunakhala) of NH-5 (Package OR-VII) Four laning & Strengthening of NH-2 from Km. 320.00 to Km. 398.75 in the state of Bihar (Package V-C) Four Laning and strengthening of existing two lane section between Km. 317 to Km. 65 on NH-2 (Package No IV-A) <p>As Chief General Manager (Projects-Roads), Co-ordination and monitoring of above projects.</p>
2000	July 2005	Progressive Constructions Ltd.,	<ul style="list-style-type: none"> Four Laning of Km. 410.00 to Km. 419.000 & Km. 470.000 to Km. 476.150 of Purnea - Gayakota Section of NH-31 in the State of Bihar. (EW - 4/BR) Four Laning of Km. 447.00 to Km. 470.152 of Dalkhola - Islampore sub section of NH-31 in the state of West Bengal - Contract Package No. EW-5 <p>As Project Manager, is responsible for over all project management, construction management and liaison with client and Engineer.</p>
1997	2000	Progressive Constructions Ltd.,	<ul style="list-style-type: none"> Four Laning of Mathura - Agra Section of NH-2 from Km. 177.000 to Km. 199.660 Including construction of proposed flyover at Agra City at Km. 196.780 to Km. 197.530 (JBIC funded) <p>As Project Manager, is responsible for over all project management, construction management and liaison with client and Engineer.</p>
1993	1997	M/s. Afcons Pauling (I) Ltd.,	<ul style="list-style-type: none"> Hyderabad-karimnager - Ramagundam Road in Andhra Pradesh (Length - 40 kms - ADB funded Highway) <p>As Project Manager, is responsible for over all project management, construction management and liaison with client and Engineer.</p>

1990	1993	Gayatri Projects Ltd.,	<ul style="list-style-type: none"> Ahmedabad - Aurangabad - Mantha Section (Length - 60 Kms. - World Bank funded) <p>As Project Engineer, was responsible for execution, construction, planning, quality control and materials management. Was also responsible for preparation of progress reports and estimation of quantities</p>
1985	1990	Atlanta Constructions Ltd.,	<ul style="list-style-type: none"> Asphaltic works & WBM work at NH-4 & 4 B <p>As site Engineer, was responsible for execution of Earth work, WBM and asphalt works including execution planning, quality control.</p>

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From	To	Company/Project/Position/Relevant Technical/Management experience	
Oct-1997	Oct-2001	Company	Progressive Constructions Ltd.
		Project	4- Lining of Mumbai - Ahmedabad Road Project (NH-8, 19 Kms)
		Position	Project Manager
		Experience	Planning and Execution of work
Jan-1996	Oct-1997	Company	Progressive Constructions Ltd.
		Project	4- Lining of Mathura Agra Road Project (NH-2, 22 Kms)
		Position	Sr. Engineer
		Experience	
Jan-1994	Jan-1996	Company	Progressive Constructions Ltd.
		Project	Extension of Salarjung Museum buildings and Internal Roads at Hyderabad
		Position	Sr. Engineer
		Experience	Buildings and Roads
Oct-1992	Jan-1994	Company	Progressive Constructions Ltd.
		Project	Construction of Andhra Bank Central Bank Building at Hyderabad
		Position	Site Engineer
		Experience	Execution of Buildings
Jun-1990	Oct-1992	Company	Progressive Constructions Ltd.
		Project	Construction of SRRCL Spinning Mills and Internal Roads, Sircilla, Andhra Pradesh.
		Position	Site Engineer
		Experience	Execution of Building works
Dec-1989	Jun-1990	Company	Progressive Constructions Ltd.
		Project	Construction of Raghava Ratna Towers, Hyderabad
		Position	Jr. Engineer
		Experience	Execution of Building works

Progressive Constructions Ltd.

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Progressive Constructions Ltd.

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Key Personnel Candidate Data Sheet			
Position : Project Manager			
Candidate information	Name of Candidate : Mr. K. Suresh Kumar		Date of Birth 10-05-1971
	Professional Qualifications : A.M.I.E		
Present Employment	Name of Employer : M/s Progressive Constructions Limited		
	Address of Employer: 7 th floor, Raghava Block, Raghava Ratna Towers, Chirag Ali Lane, Nampally, Hyderabad – 500 001, Andhra Pradesh, India		
	Telephone: 91-40 – 2320 4684 / 5 / 6		Contract : Manager (HR)
	Fax : 91-40 – 2320 4687 / 8		E-mail hr.hyd@progressiveconstructions.com
	Present Job title of candidate Project Manager		Years with Present employer 19 years
	English Language Ability: YES		
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project			
From	To	Company/Project/Position/Relevant Technical/Management experience	
Dec-2007	Till Date	Company	Progressive Constructions Ltd.,
		Project	Lucknow – Muzaffarpur National Highway (40 Kms.)
		Position	Project Manager
		Experience	Planning, Monitoring and Execution of work
Sept-2005	Nov-2007	Company	Progressive Constructions Ltd.,
		Project	Albara – Haiya Road project in Sudan (129 Kms)
		Position	Project Manager
		Experience	Planning, Monitoring and Execution of work
April-2004	Aug-2005	Company	Progressive Constructions Ltd.,
		Project	4-Laning of NH-2 Road at Varanasi (NH-2, 78 Kms)
		Position	Project Manager for Section-C
		Experience	Planning and Execution of work
Nov-2001	April-2004	Company	Progressive Constructions Ltd.,
		Project	4 Laning of Gulabpura – Nasirabad Road Project (Package KU-2). (NH-79, 55 Kms)
		Position	Project Manager
		Experience	Planning, Monitoring and Execution of work

Full Signature

K. Suresh Kumar

FULL SIGNATURE CONTAINING PHOTO

DATE: 10-05-2011

Key Personnel Candidate Data Sheet

Position: Dy. Project Manager

Candidate Information

Name of Candidate:
Mr. S.Ravindranath Tagore

Date of birth: 07.06.1973

Professional qualifications: B. E (Civil), M.E

Present Employment



Name of employer M/S. Progressive Constructions Ltd.

Address of Employer:
7th Floor, Raghava North Block, R.R. Towers,
Chirag Ali Lane, Abids, Hyderabad-500 001.
Andhra Pradesh, IndiaTelephone:
91-40-2320 4684 / 5 / 6Contact:
Manager (HR)Fax:
91-40 -- 2320 4688E-Mail:
hr.hyd@progressiveconstructions.comPresent Job title of the
candidate
Dy. Project ManagerYears with present Employer
- 11 Years

English Language Ability: YES

Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project

From	To	Company/Project/Position/Relevant Technical/Management experience	
Jan-2008	Till Date	Company	Progressive Constructions Ltd.
		Project	Kosti Thermal Power Project, Khartoum, Sudan
		Position	Dy. Project Manager
		Experience	Execution of the works
Sept-2005	Dec-2007	Company	Progressive Constructions Ltd.
		Project	4- Lining of Agra - Sikohabad Road , Package 1 B (NH-2, 57 Kms.)
		Position	Dy. Project Manager
		Experience	Preparation of daily, weekly and monthly work program's, procurement of materials, quality control of all activities
Mar-2004	Aug-2005	Company	Progressive Constructions Ltd.
		Project	4- Lining of NH-2 Road work at Varanasi, Package IV-A, (NH-2, 78.18 Kms.)
		Position	Highway Engineer
		Experience	Procurement of materials, approvals of quarries and borrow areas. Preparation of work programmes, quality control of all activities

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From	To	Company/Project/Position/Relevant Technical/Management experience	
Nov – 2001	Feb – 2004	Company	Progressive Constructions Ltd.,
		Project	4- Laning of Gulabpura – Nasirabad Road, Package KU-II, (NH-76, 55 Kms.)
		Position	Material Engineer
		Experience	Monitoring the quality systems and laboratory activities, job mix designs, approval of quarries
Oct – 1998	Oct – 2001	Company	Progressive Constructions Ltd.,
		Project	Four Laning of Dalkhola – Islampore Section of NH-31
		Position	Quality control Engineer
		Experience	Material testing and job mix designs
May – 1992	Nov – 1996	Company	KMC Constructions Ltd.,
		Project	Four Laing of Gajuwaka – Visakhapatnam section of NH-5
		Position	Junior Engineer
		Experience	Testing of soil, cement, Aggregate, bitumen as per IS, ASTM, AASHTO codes. Ltd.

For Progressive Constructions Ltd.
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 Authorised Signatory

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Key Personnel Candidate Data Sheet			
Position: Site Superintendent/Highway Engineer			
Candidate information	1. Name of Candidate: Y. Ravindra Babu		2. Date of Birth: 15-08-1967
	3. Professional Qualifications: B.E. (Structures)		
Present Employment	4. Name of Employer : M/s Progressive Constructions Limited		
	Address of Employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad-500 001, Andhra Pradesh, India		
	Telephone: 91-40 - 2320-4684/5/6		Contract : Manager (HR)
	Fax : 91-40 - 2320-4688		E-mail: hr.hyd@progressiveconstructions.com
	Present Job title of candidate: Dy. Project Manager		Years with Present employer 3 Years
	English Language Ability: YES		
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.			
From	To	Company/Project/Position/Relevant Technical/Management experience	
Dec, 2006	Till date	Company	Progressive Constructions Limited
		Project	Four Laning and Strengthening of single / Intermediate lane carriage way of NH-57 from Km 42.500 to Km 79.210 (Araria-Forbesganj Section) In the state of Bihar on East-West corridor under NHDP phase-II, Package No.: C-IV/BR-2
		Position	Project Manager
		Experience	Planning, Monitoring and Execution of the Project
April, 2003	Oct, 2006	Company	Patel-KNR (JV)
		Project	Surat-Manor Toll way project, NH-8
		Position	Dy. Project Manager
		Experience	Three years
April, 1996	March, 2003	Company	KNR Constructions Limited
		Project	Strengthening of SH-221 of Hyderabad-Chanda Road
		Position	Highway/Structural Engineer
		Experience	Seven years

Y. Ravindra Babu
K. S. R.

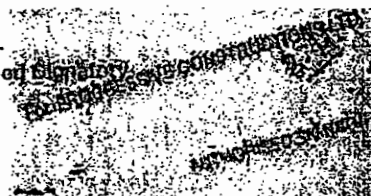
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From	To	Company/Project/Position/Relevant Technical/Management experience	
Dec, 1990	March, 1996	Company	AFCONS
		Project	Four laning of Hyderabad-Karimnagar-Chanda Road, Construction of Jetty at Chandrapur, Construction of Dry Dock at Madgaon Port, Bombay.
		Position	Highway /Bridge Engineer
		Experience	Six years
May, 1989	Nov, 1990	Company	U.P. State Bridge Corporation Limited
		Project	Construction of ROB on NH-9 at Sanath Nagar
		Position	Highway Engineer
		Experience	One year three months

For Progressive Constructions Ltd.

Authorised Signature

QWB



Key Personnel Candidate Data Sheet			
Position: Dy. Site Superintending/Highway Engineer			
Candidate Information	Name of Candidate: Mr. Anil Kumar Chaubey		Date of birth: 08.04.1972
	Professional qualifications: B. E (Civil)		
Present Employment	Name of Employer M/S. Progressive Constructions Ltd.		
	Address of Employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad-500 001. Andhra Pradesh, India		
	Telephone: 91-40- 2320 4684 / 5 / 6		Contact: Manager (HR)
	Fax: 91-40 - 2320 4687 / 6		E-Mail: hr.hyd@progressiveconstructions.co m
	Present Job title of Candidate Highway Engineer		Years with present Employer 9 Years
	English Language Ability: YES		
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project			
From	To	Company/Projects/Position/Relevant Technical and Management Experience	
Nov 2005	Till date	Company:	Progressive Constructions Ltd.
		Project :	Four Laning of Gopalganj - Muzaffarpur section (Package No. WB -12) (NH-28, 40 Kms.
		Position	Highway Engineer
		Experience :	Responsible for overall project management, construction management and execution of flexible pavement, liaison with client and Engineer.
Feb 2004	Nov 2005	Company:	Progressive Constructions Ltd.
		Project :	Four Laning of NH-2 work at Varanasi (Package No. IV A) (NH-2, 78 Kms.)
		Position :	Section In-charge Zone-C (Roads & Highway)
		Experience:	As Section In-charge Zone-C (Roads & Highway) is responsible for overall project management, construction management and execution of flexible pavement, liaison with client and Engineer.

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From	To	Company/Projects/Position/Relevant Technical and Management Experience	
Nov 2001	Feb 2004	Company:	Progressive Constructions Ltd.
		Project :	Four Laning Gulabpura - Nasirabad Section (Package No. KU-II) (NH-76, 55 Kms.)
		Position	Sr. Highway Engineer
		Experience :	Was responsible for construction of earthwork, GSB, WMM and Bituminous works as per MOST and IRC specification. Was also responsible for quality control, material management.
Dec 1998	Nov 2001	Company:	Progressive Constructions Ltd.
		Project :	Four laning of Mumbai - Ahmedabad section (NH 8, 19 Kms)
		Position	Sr. Highway Engineer
		Experience :	Was responsible for construction of earthwork, GSB, WMM and Bituminous works as per MOST and IRC specification. Was also responsible for quality control, material management.
April 1998	Oct 1998	Company:	Progressive Constructions Ltd.
		Project :	Four laning of Agra - Mathura Road work (NH 2, 22 Kms.)
		Position	Highway Engineer
		Experience :	Responsible for construction of earthwork, GSB, WMM and Bituminous works as per MOST and IRC specification. Was also responsible for quality control, material management.
Nov 1996	April 1998	Company:	PWD works
		Project :	
		Position	Site Engineer
		Experience :	Was responsible for construction of Roads and

AWB
 The undersigned is
 General Manager
 (Civil) - PWD, Lucknow

Key Personnel Candidate Data Sheet		
Position: Site Construction Engineer		
Candidate Information	Name of Candidate: Mr. K. Subramanyam	Date of birth: 24.06.1968
	Professional qualifications: B. Tech.(Civil)	
Present Employment	Name of employer : M/S. Progressive Constructions Ltd.	
	Address of Employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Ablds, Hyderabad-500 001: Andhra Pradesh, India	
	Telephone: 91-40- 2320 4684 / 5 / 6	Contact: Manager (HR)
	Fax: 91-40 - 2320 4687 / 8	E-Mail: hr.hyd@progressiveconstructions.com
	Present job title of candidate Section Engineer	Years with present Employer 7.Years
English Language Ability: YES		
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project		

From	To	Company/Project/Position/Relevant Technical/Management experience	
Oct-2008		Company	Progressive Constructions Ltd.,
		Project	Four Laning of Gopalgarh - Muzaffarpur section (Package No. WB -12) (NH-28, 40 Kms.
		Position	Section Incharge
		Experience	In-charge for Execution of Road work for 15 Kms
July-2005	Sept-08	Company	Progressive Constructions Ltd.,
		Project	4- Laning of Agra - Sikohabad Road , Package 1 B (NH-2, 57 Kms.)
		Position	Section Incharge
		Experience	In-charge for Execution of Road work for 30 Kms
Feb-2004	Jun-2005	Company	Progressive Constructions Ltd.,
		Project	4- Laning of NH-2 Road work at Varanasi, Package IV-A, (NH-2, 76.18 Kms.)
		Position	Section In-charge
		Experience	In-charge for Execution of Earth work to BC for 15 Kms.

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From	To	Company/Project/Position/Relevant Technical/Management experience	
Apr-2002	Feb-2004	Company	Progressive Constructions Ltd.,
		Project	4- Lining of Gulabpura - Nasirabad Road, Package KU-II, (NH-76, 55 Kms.)
		Position	Section In-charge
		Experience	In-charge for Execution of Earth work to BC for 10 Kms.
May-2001	Apr-2002	Company	Soma Enterprise Ltd.,
		Project	4- Lining of NH-5 Road at Eluru
		Position	Section In-charge
		Experience	In-charge for Execution of Earth work to BC for 10 Kms.
Apr-1996	June - 1998	Company	BDR Projects Ltd.,
		Project	Building works
		Position	Site Engineer
		Experience	Execution of Building works.
Feb-1993	May - 1995	Company	Progressive - B. Seentah & Co., JV
		Project	Widening and strengthening of Road works in Rajasthan and Karnataka.
		Position	Site Engineer
		Experience	

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Key Personnel Candidate Data Sheet		
Position: Site Construction Engineer		
Candidate Information	Name of Candidate: Mr. Mujahid Ahmed Kotwal	Date of birth: 21.03.1976
	Professional qualifications: B. E (Civil),	
Present Employment	Name of employer M/S. Progressive Constructions Ltd.	
	Address of Employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad-500 001. Andhra Pradesh, India	
	Telephone: 040- 2320 4684 / 5 / 6	Contact: Manager (HR)
	Facsimile: 040 - 2320 4687 / 8	E-Mail: hr.hyd@progressiveconstructions.co.in
	Present job title of candidate Bridge Engineer	Years with present Employer 5 Years
English Language Ability: YES		

Summarize Professional experience over the last 20 years in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Project/Position/Relevant Technical/Management experience	
Oct-2008		Company	Progressive Constructions Ltd.,
		Project	Four Laning of Gopalganj - Muzaffarpur section (Package No. WB -12). (NH-28, 40 Kms.
		Position	Bridge Engineer
		Experience	Construction supervision and monitoring, project Management, planning, designing for the project related bridges
Sept-2005	Sept-2008	Company	Progressive Constructions Ltd.,
		Project	4- Laning of Agra - Sikohabad Road , Package 1 B (NH-2, 57 Kms.)
		Position	Bridge Engineer
		Experience	Construction supervision and monitoring, project Management, planning, designing for the project related bridges

Mr. Mujahid Ahmed Kotwal

Authorized Signatory

From	To	Company/Project/Position/Relevant Technical/Management experience	
Jun-2004	Sep-2005	Company	Progressive Constructions Ltd.,
		Project	4- Laning of NH-2 Road work at Varanasi, Package IV-A, (NH-2, 76.18 Kms.)
		Position	Bridge Engineer
		Experience	Supervision of 7 nos. Major Bridges, execution of work as per MoRTH specifications for PSC Girder, High tensile stress cable profiling, pre-stressing operation and bar bending schedule.
Mar-2004	June-2004	Company	Progressive Constructions Ltd.,
		Project	Construction of Sky busbays and box-girder (first time in world)
		Position	Bridge Engineer
		Experience	Site control including BBS, Preparation of Staging designs etc.,
Apr-2002	Mar-2004	Company	Progressive Constructions Ltd.,
		Project	4- Laning of Gulabpura - Nasirabad Road, Package KU-II, (NH-76, 55 Kms.)
		Position	Bridge Engineer
		Experience	Supervision of 2 nos. major bridges, 1 no. ROB, 10 Nos. of Minor bridges, 60 Nos slab culverts and reinforced earth wall etc.
Nov-2001	Mar-2002	Company	KMC Constructions Ltd.,
		Project	Four Laing of MH-8, Package No. UG-II
		Position	Bridge Engineer
		Experience	Supervision of 1 no. Major bridge of 40 m span PSC box girder, 8 nos minor bridges, preparation of work methodology, Execution of marking, center line fixing, planning and monitoring of work.
Sept-1999	Oct-2001	Company	KMC Constructions Ltd.,
		Project	Widening to four lanes of Mumbai - Ahmedabad section of NH-8
		Position	Bridge Engineer
		Experience	Supervision of quality of concrete, monitoring of perfect alignment for the three major bridges, bar bending schedule, T-beams including deck slabs, preparation of staging design for super structure fixing of strip - seal expansion joints and casting hand rails.
May-1999	Aug-1999	Company	KMC Constructions Ltd.,
		Project	Construction of ROB in Piduguralla, Guntur Dist., Andhra Pradesh
		Position	Site Engineer
		Experience	Supervision of ROB consist 3 span, 16 m c/c, 2 spans 24.0 m c/c with open foundations, T-beam girders with deck slabs.

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Kumaraguru Construction Pvt. Ltd.

AMRUTAPURAM

From	To	Company/Project/Position/Relevant Technical/Management experience	
Dec-1997	April-1999	Company	KMC Constructions Ltd.
		Project	Four laning of Mumbai - Ahmedabad section of NH-8
		Position	Site Engineer
		Experience	Supervision of 3 major bridges - Tansa Bridge - 12 spans of 14.14 C/c with 8 skew with open foundations, T-Beam girder with deck slab. Vandri Bridge - 8 spans of 10.67 m c/c piers in water with open foundation, T-beam girder Vaitama bridge - 2 spans of 12.2 m c/c. 2 nos, 22.86 m c/c 6 nos, 27.43 m c/c 3 nos spans, piers were in water with open foundations, pier cap, T-beam girder with bulb portion and deck slab with strip-seal expansion joint in between slab. Wearing cost is mastic asphalt 12 mm thick 53 mm asphalt concrete.

For Expressive Constructions Ltd.

Authorised Signatory

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Key Personnel Candidate Data Sheet

Position: Chief Quantity Surveyor

Candidate information	Name of Candidate : Mr. V. Rushindranath Reddy	Year / of Birth 01/06/1967
	Professional Qualifications : B.E. (Civil)	
Present Employment	Name of Employer : M/s Progressive Constructions Limited	
	Address of Employer: 7 th floor, Raghava Block, Raghava Ratna Towers, Chirag Ali Lane, Nampally, Hyderabad – 500 001, Andhra Pradesh, India	
	Ph: 040 – 2320 4684/4685/4686	Contract : Manager (HR)
	Fax: 040-2320 4687/4688	
	Present Job title of candidate Quantity Surveyor	Years with Present employer 4 Years
	English Language Ability: YES	

Summarize Professional experience over the last 20 years in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Project/Position/Relevant Technical/ Managerial experience	
Jan 2008	Till date	Company	Progressive Constructions Limited
		Project	4 - Laning from 360.915 to 402.000 of Gorakhpur – Gopalgarh section of NH-28 (Km 42.915 approx.)
		Position	Sr. Quantity Surveyor & Highway incharge
		Experience	Involved in complete execution, Estimation, Quantity analysis of various layer of pavement as per specification. Earthwork, Subgrade, GSB, WMM, DBM, Asphalt and BC layers.
Nov 2004	Dec 2007	Company	Progressive Constructions Limited
		Project	Construction of Atbara - Haya Project - Section II from Km. 150.000 to Km. 279.000 in Sudan (129 Km approx)
		Position	Estimation Engineer
Oct 2001	Nov 2004	Company	ESS Constructions, Hyderabad
		Project	Heavy periodic maintenance of Erpedu – Chennuru road from Km 25/121 to 61/295 in Nellore (Dist.) AP
			Heavy periodic maintenance Hyderabad – Guntur road form Km 239/80 to 285/0 in Guntur (Dist.) AP
		Position	Quantity cum highway engineer
1993	Oct 2001	Experience	Involved in complete execution, estimation, analysis & billing
		Company	R & D Department Andhra Pradesh
		Project	Construction and Maintenances of various Road in AP
		Position	Asst. Engineer

Key Personnel Candidate Data Sheet		
Position: Chief Surveyor		
Candidate information	1. Name of Candidate : Mr. B.Venkata Ramanalah	2. Date of Birth 1973
	3. Professional Qualifications : Civil Engineer B-Tech	
Present Employment	4. Name of Employer : M/s Progressive Constructions Limited	
	Address of Employer: 7 th floor, Raghava Block, Raghava Ratna Towers, Chirag Ali Lane, Nampally, Hyderabad – 500 001.	
	Telephone: 040 – 2320 4684 / 5 / 6	Contract : Manager (HR)
	Facsimile : 040 – 2320 4687 / 8	E-mail hr.hyd@progressiveconstructions.com
	Present Job title of candidate Survey Engineer	Years with Present employer 3 Years
English Language Ability: YES		

Summarize Professional experience over the last 20 years in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Project/Position/Relevant Technical/Management experience	
Feb 2006	Till Date	Company	Progressive –MVR(JV)
		Project	LMNHP-EW-II (WB)-10, 4-Lanning from Km.402.000 to Km.440.000 of Gopalganj-Muzaffarpur Section of NH-28 in Bihar.
		Position	Sr. Survey Engineer
		Experience	Responsible for carrying out survey & fixing levels
Jun. 2003	Feb 2006	Company	M/s SDB- NCC Ltd.(JV)
		Project	WB/GTRIP/6, Package-IV C, NH-2 (Km.110.000 to Km.140.000) Bihar
		Position	Senior Survey Engineer
		Experience	Responsible for carrying out survey & fixing levels

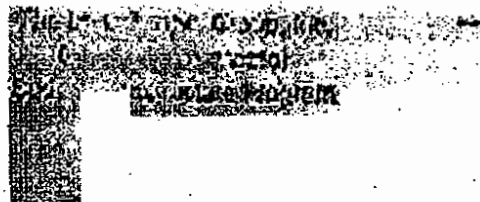
From	To	Company/Project/Position/Relevant Technical/Management Experience
Dec. 2001	June 2003	Company Progressive - STICCO-JV
		Project 4-Lanning from Km.284.000 to Km.339.713 on NH-5, Pkg-OR-VII in Orissa.
		Position Senior Engineer (Survey)
		Experience Surveying with Total station.
Aug. 1999	Dec. 2001	Company KMC Ltd. Hyderabad (A.P.)
		Project Srikakulam to Parvathipuram from Km. 35.000 to 75.000 Incharge fro 10 Km.
		Position Junior Engineer
		Experience Responsible for execution & construction of all activities on that stretch, and solving the day-to-day problems that arise in field along with technical problems.

For Progressive Construction Mr. S.M. Sankar

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Authorised Signatory

For Progressive Construction



Key Personnel Candidate Data Sheet

Position: Quality Control Manager

Candidate
information1. Name of Candidate :
SREE KRISHNA KUMAR2. Date of Birth
05/04/1976.

3. Professional Qualifications : Diploma in Civil Engg.

Present
Employment

4. Name of Employer : M/s Progressive Constructions Limited

Address of Employer: 7th floor, Raghava Block, Raghava Ratna Towers,
Chirag Ali Lane, Nampally, Hyderabad - 500 001.
Andhra Pradesh, IndiaTelephone:
91-40 - 2320 4684 / 5 / 6Contract :
Manager (HR)

Fax : 91-40 - 2320 4687 / 8

E-mail
hr.hydr@progressiveconstructions.comPresent Job title of candidate
QC ManagerYears with Present employer
7 YearsPresent Job title of candidate
QC ManagerYears with Present employer
9 Years

English Language Ability: YES

Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project

From	To	Company/Project/Position/Relevant Technical/Management experience	
03/03/2006	Till Date	Company	Progressive Constructions Limited
		Project	Four Lanning of NH-57 , Br-1
		Position	Material Engineer / Q.C Manager
		Experience	Quality Control Aspects

From	To	Company/Project/Position/Relevant Technical/Management experience	
15/01/2004	03/03/2006	Company	Progressive Constructions Limited
		Project	EW/4(BR) Four lanning of NH-31, Km447 to 470 Km of Purnea section.
		Position	Q.C Engineer.
		Experience	2 years 3 Months
05/01/02	15/0/04	Company	Progressive Constructions Limited
		Project	Ew/5 (W.B) Four lanning Nh -31
		Position	Q.c.Engineer
		Experience	2 Years
08/12/99	05/01/02	Company	Progressive Constructions Limited
		Project	EW/4(BR) Four lanning of NH-31
		Position	Q.C Engineer
		Experience	2 years 1 Month
01/11/98	08/12/99	Company	Chodhry & Brother's Group (Bihar)
		Project	Nh-31 (Mantainace of exixting Nh -31).
		Position	Jr Engineer
		Experience	1 year 1 Month

For Progressive Constructions Ltd.

THE T.M. BOYER GROUP, INC.
CONFIDENTIAL

Key Personnel Candidate Data Sheet		
Position: Quality Control Engineer		
Candidate Information	Name of Candidate: Mr. S.K.Sinha	Date of birth: 01.06.1972
	Professional qualifications: Diploma in Civil Engineer	
Present Employment	Name of employer: Progressive Constructions Ltd.	
	Address of employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad, Andhra Pradesh, India	
	Telephone: 040- 2320 4684 / 5 / 6	Contact (manager / personnel officer) Manager (HR)
	Fax : 040-2320 4687 / 8	e-mail: hr_hyd@progressiveconstructions.com
	Job title of candidate: Q.C. Engineer	Years with present employer: 6 years
English Language Ability: YES		

Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
July 2005	Till date	Company:	Progressive Constructions Ltd.
		Project :	Four Laning from Km. 480.00 to Km 520.00 of Gopalgarh-Muzaffarpur Section of NH-28 in Bihar, Contract Package No. LMNHP-EW-II (WB) -12.
		Position	Q.C. Engineer
		Experience :	As Material Engineer was responsible for over all materials management, Quality control of different road activities and liaison with client and Engineer.

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
Oct 2001	July 2005	Company:	Progressive Constructions Ltd.
		Project :	Construction of Four laning and strengthening of existing two lane from Km 320.000 to Km 398.075 from Boratani to Barwadda on NH - 2 Package V-C at Dhanbad (Jharkhand).
		Position :	Assistant Q.C.Engineer
		Experience:	As Assistant Material Engineer was responsible for setting up of laboratory at site, materials testing, testing of aggregates, selection of source of aggregates, monitoring of Quality of concrete at site.
Feb 1998	Aug 2001	Company:	M/S IROCON INTERNATIONAL LTD., NEW DELHI
		Project :	WIDENING AND STRENGTHENING OF APSH III FROM KM 305.000 TO 369.500 AT CUDDAPH (DIST), ANDHRA PRADESH
		Position :	Quality Control/Material Engineer
		Experience:	Responsible for Setting up main/base Control Laboratory and formulation of the schedule for the lab equipment purchasing, preparation of Internal Testing Program on the basis of Project requirement, arrangement for the equipments for the routine quality control testing at Concrete Batching Plants, Asphalt Mixing Plant, Crushers, Wet Mix Plants etc.checking of suitable of highway construction materials like soil, Coarse aggregate, Fine aggregate, Bricks, Cement, Bitumen, Bearing, Steel etc. by conducting various tests at different stages of works of the project, co-ordination with outside testing agencies and other institution for the outside testing. Carryout Mix Design as per the project requirement. IS Code, IRC, MOST and other relevant specifications like SP. 23, MS-2 etc.
June 1996	Feb 1998	Company:	M/S IROCON INTERNATIONAL LTD., NEW DELHI
		Project :	"THANKOT-NAUBISE ROAD PROJECT", KATHMANDU, NEPAL
		Position :	ASSISTANT LAB ENGINEER
		Experience:	Responsible for keeping record of the tests and summaries of tests conducted according to the specified frequency and preparation of bar charts, fixing up of quarries & Borrow areas for construction materials by checking their materials suitability. Doing field density testing at different stages of works by using Sand Replacement method, Nuclear Moisture Density gauge and calibration of all lab equipment.Preparation of Internal Testing Program on the basis of Project requirement.

For Progressive Construction Co.

Kavya

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
March 1995	June 1996		M/S IROCON INTERNATIONAL LTD., NEW DELHI
		Project :	"EAST-WEST HIGHWAY PROJECT", DHARAN, NEPAL
		Position :	JR. ENGINEER (QUALITY CONTROL)
		Experience:	Responsible for keeping record of the tests and summaries of tests conducted according to the specified frequency and preparation of bar charts, fixing up of quarries & Borrow areas for construction materials by checking their materials suitability. Doing field density testing at different stages of works by using Sand Replacement method, Nuclear Moisture Density gauge and calibration of all lab equipment.
Sept 1994	Feb 1995	Company:	M/S IRCON INTERNATIONAL LTD., NEW DELHI
		Project :	"VARANASI-SHAKTINAGAR ROAD PROJECT" (UP)
		Position :	ASSITANT LAB ENGINEER
		Experience:	Responsible for keeping record of the tests and summaries of tests conducted according to the specified frequency and preparation of bar charts, fixing up of quarries & Borrow areas for construction materials by checking their materials suitability. Doing field density testing at different stages of works by using Sand Replacement method, Nuclear Moisture Density gauge and calibration of all lab equipment.

M/S IROCON INTERNATIONAL LTD.

AUTHORISED SIGNATURE

APPLICATION FORM (5A)

Candidate Summary

Name of Applicant: Progressive Constructions Limited

Position: Lab Supervisor

Candidate Information	Name of Candidate: Mr. Awadh Kishore Choudhary	Date of birth: 09.05.1968
	Professional qualifications: Diploma in Civil Engineer	
Present Employment	Name of Employer M/S. Progressive Constructions Ltd.	
	Address of Employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad-500 001. Andhra Pradesh, India	
	Telephone: 91-40- 2320 4684 / 5 / 6	Contact: Dy. General Manager (HR)
	Fax: 91-40 - 2320 4687 / 8	E-Mail: hr.hyd@progressiveconstructions.co m
	Present Job title of Candidate Site Engineer	Years with present Employer 12 Years
	English Language Ability: YES	
Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project		

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
Sept 2005	Till date	Company:	Progressiva Constructions Ltd.
		Project :	Balance works of four laning and strengthening of the existing two lane Highway section from Km.250.5 to Km. 307.5 on NH-2, Package-1b in UP. (From Makhanpur to Etawah) Funded by World Bank.
		Position	Lab Engineer
		Experience :	3 years
Apr 2003	July 2005	Company:	Progressive Constructions Ltd.
		Project :	Strengthening & wiening of Km. 317 to Km. 65 on NH-2, Package -IV-A in UP & Bihar (From Varanasi to Mohnia) Funded by World Bank.
		Position :	Lab Engineer
		Experience:	2 Years 3 Months

For Progressive Constructions Ltd.
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THE CONSUMERS BOARD OF
SOUTH AFRICA
THE CONSUMER PROTECTION
ACT, 1978 (ACT NO. 68 OF 1978)

РСТ. 000398

Key Personnel Candidate Data Sheet		
Position: Environmental officer		
Candidate Information	Name of candidate : Mukesh Kumar Sinha	Date of Birth : 27.02.1972
	Professional Qualification	
		B.E. (Civil) in 1995
Present Employment	Name of Employer: Progressive Construction Limited	
	Address of employer: 7 th Floor, Raghava North Block, R.R. Towers, Chirag Ali Lane, Abids, Hyderabad, Andhra Pradesh, India	
	Telephone: 040- 2320 4684 / 5 / 6	Contact (manager / personnel officer) Manager (HR)
	Fax : 040-2320.4687 / 8	e-mail: hr.hyd@progressiveconstructions.com
	Job Title of Candidate Environmental Officer	Years with present Employer 3 Years
English Language Ability: YES		

Summarize Professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
April 2006	Till date	Company:	Progressive Constructions Ltd.
		Project :	Four Laning from Km. 480.00 to Km 520.00 of Gopalganj-Muzaffarpur Section of NH-28 in Bihar, Contract Package No. LMNHP-EW-II (WB) -12.
		Position:	Environmental Officer.
		Experience :	
April 2005	April 2006	Company:	Sinha & Associates (Self Employed Firm)
		Project :	
		Position :	
		Experience :	

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From	To	Company/Projects/Position/Relevant Technical and Management Experience.	
Dec. 2003	March 2005	Company :	Transtek Engineers & Services Pvt. Ltd., Patna
		Project :	Four-laning and Strengthening of NH-57 from Km 310 to Km 230 (Purnea - Forbesganj Section), Package - C-II/BR-1 under Phase II programme for improvement of East - West Corridor Project in India Under NHAI.
		Position :	Environmental Expert (Key Expert)
		Experience :	as Environmental Expert, responsible for Environmental surveys, finalisation of Environmental Screening Report, Environmental Impact assessment Report and Environmental Management Plan.
Oct. 2002	Nov. 2003	Company :	Techno Point Consultants & Associates, Patna
		Project :	Four-laning and Strengthening of NH-28 from Km 279.800 to Km 386.000 (Gorakhpur - Gopalganj Section), Package - C-III/5 under Phase III programme for improvement of East - West Corridor Project in India Under NHAI, World Bank Funded Project
		Position :	Environmental Engineer
		Experience :	as Environmental Expert, responsible for Environmental surveys, finalisation of Environmental Screening Report, Environmental Impact assessment Report and Environmental Management Plan.

From	To	Company/Projects/Position/Relevant Technical and Management Experience	
April 2001	Sep. 2002	Company :	Meinhardt Singapore Pty. Ltd
		Project :	Four-laning and Strengthening of Existing two lane stretches from Km 245 to Km 317 on NH-2, Construction Package III-C (Allahabad - Varanasi Section), Contract Package - TNHP/SC/2, World Bank Funded Project
		Position :	Environmental Officer
		Experience :	as Environmental Officer, responsible for Environmental Management Plan as approved by World Bank in co-ordination with Environment Manager, NHAI, PIU, Allahabad.
April 2000	Feb 2001	Company :	Transtek Engineers & Services Pvt. Ltd., Patna
		Project :	Four laning of NH-31 (Km.419.000 to Km 447 Dalkhola). The project is being financed by GOI under NHAI, NSEW Project.
		Position :	Environmental Engineer
		Experience :	as Environmental Engineer, performed screening, scoping and consultation with Public, N.G.O. etc. description of base line conditions, Analysis of potential environmental impacts. Consideration of alternatives, Development of mitigate and compensation measures, Design of monitoring and evaluation Plans (Environmental and management Plan), Documentation and Mapping Preparing Environment and Social Impact Screening Report, Draft Environmental assessment Report - RAP, Final Environment Assessment Report - RAP.

End of Document

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From	To	Company/Projects/Position/Relevant Technical and Management Experience	
July 1998	Nov 1999	Company :	Transtek Engineers & Services Pvt. Ltd., Patna
		Project :	as Environmental Engineer under Dr. Prasant Dey, who was the Environmental Expert (Key Expert), for Four laning of NH-2 Package V i.e. Madanpur to Barwadda Section (Km.180-398.75) = 220 Km (approx.) in the State of Bihar. The project is being financed by World Bank and all the activities are being monitored by NHAI official as well as World Bank experts.
		Position :	Environmental Engineer
		Experience :	as Environmental Engineer carried out the Environmental Survey work and Screening under guidance of Key Expert. Involved in preparation Environment Screening Report, Environment Environmental Impact Assessment Report and finalization of Environment Management Plan Report.

En. Manoj Kumar Construction Ltd.
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 En. Manoj Kumar Construction Ltd.

SCHEDULE 3				
SUB CONTRACTORS				
Works be performed or services to be provided	Name and address of sub contractor	Approximate Value (USD) of sub contract	Approximate percentage of Contract Price	Sub contractor country or Registration
NIL				

For Pennerselva Constructions Ltd.

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For Pennerselva Constructions Ltd.

S.H.
MR. CHIEF MAN

[Signature]
Mr. [Name]
Chief Engineer
1st International Project

GENERAL METHODOLOGY OF CONSTRUCTION OF MAJOR ITEMS

INTRODUCTION

M/s. PROGRESSIVE CONSTRUCTIONS LIMITED will be responsible for the supply, installation, construction, testing, commissioning and warranty of road work from km.0+000 to km. 55+000 Contract Package No.1 in accordance with the Employer's Tender Documents.

PROGRESSIVE CONSTRUCTIONS LIMITED recognizes and fully understands the action necessary to construct the project on time, with modern technology including construction technique and practices. PROGRESSIVE CONSTRUCTIONS LIMITED is fully geared up to complete the project on time and to the specified standards, with extensive experience in construction works of similar nature and magnitude, combined with its advanced capabilities in terms of technology, manpower and equipment.

SCOPE OF THE WORK

The Works consist of:

- a) Construction of all weather double bituminous surface treatment (SBST) pavement in accordance with AASHTO standards and Ministry of Transport and Roads(MTR), southern sudan .
- b) Construction of culverts and drainage structures, road marking and road furniture.

- 6) Providing and maintenance of accommodation for engineers office & housing, engineers laboratory and vehicles.

The works under this contract will be carried out in accordance with the bidding documents constituting the contract and will consist of various salient items as generally described below:

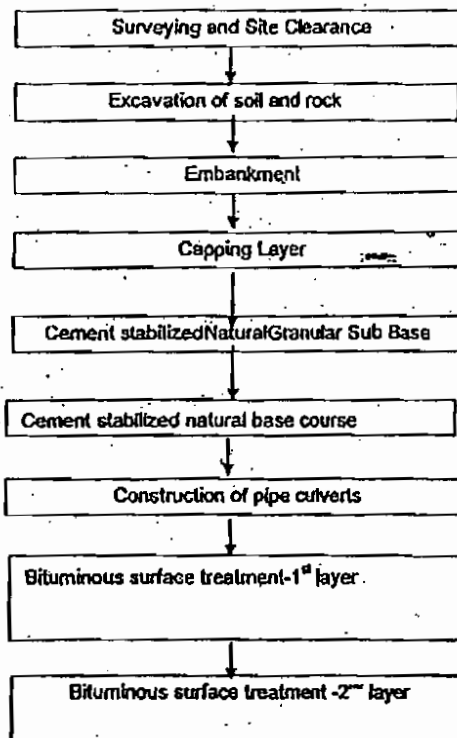
Road Works Involve Conducting geotechnical investigations, site clearance including removal of tree stumps and dismantling of obstructions, encroachments etc, before commencement of works, true and proper setting out and layout of the works, setting of bench marks, preparation of working drawings where required, widening and strengthening/reconstruction of the existing carriageway including remodeling/construction of junctions, construction of culverts, and approaches and other related items of works, providing road markings, road signs and kilometer stones.

The Detailed Methodology for the Major Items of the Work is as follows:

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Flow chart for road works



Traffic Control

For this project between km. 0+000 and km. 55+000 in line with division 1500 of Technical Specifications, the necessary traffic control measures such as Caution boards, Diversion boards and Barricades will be

provided at all working stretches including the intersection points, diversion points and culverts while work is in progress.

1. Site Clearance

As and when the possession of site and construction drawing are made available, the survey team will be deployed to set out the alignment of the road and other structures, and simultaneously following works will be started pertaining to site clearance within category as follows;

- ❖ Dozers and graders/excavators, trucks will be deployed into service for removal and disposal of waste and unwanted materials to suitable place keeping in mind the environmental ethics.
- ❖ Finally the cleared ground will be prepared and compacted as per specifications to receive the embankment.

All clearing and grubbing work is a part of minor excavation work, thus the entire job will be carried out in conformity with the direction and instructions approved by Engineer-in-charge.

While planning and executing the work, PROGRESSIVE CONSTRUCTIONS LIMITED would take adequate precautions, against soil erosion and damage to the existing greenery and trees to confirm the ecological ethics.

All debris and loose material will be removed keeping in mind the minimum soil erosion and ponding, allowing for natural drainage to take place. PROGRESSIVE CONSTRUCTIONS LIMITED will undertake all reasonable precaution for the protection and preservation of all roadside trees.

2. Survey and Setting out

Survey and setting out is for the purpose of earmarking and demarcating the site boundary within the contract, the alignment and profile of the specific job for execution, and establishment of Temporary Bench Marks at required locations.

It will be ensured that no Bench Mark Pillar settles or gets damaged during construction period. On completion of Survey, all the data will be preserved and checked against the Existing details and discrepancy if any will be resolved in consultation with Engineer-in-charge. For road works, the existing ground levels shall be determined, and center line marking and stakes shall be installed at required intervals.

In addition to this, further Temporary Bench Marks shall be established along the alignment and will be checked against the permanent Bench Marks periodically during construction. The profile of either cut or fill section will be monitored at regular intervals to ensure Compliance with the required alignment and profile.

All the benchmarks and stakes will be protected by the survey team till the completion of the project. PROGRESSIVE CONSTRUCTIONS LIMITED will establish working benchmarks tied with the Reference Bench Marks in

the area soon after it is approved by Engineer-in-charge as and when required and will be recorded.

The Organization of surveying team will report as follows:

- ❖ 2 teams for surveying will be organized.
- ❖ 2 surveyors and 2 skilled labors will be engaged for each team.
- ❖ 1 total station and adequate nos. of leveling instruments will be provided.

On completion of above basic activities the actual works start in the following manner and sequence.

3. Earthwork in excavation

The work of excavation would commence as soon as the area has been cleared. The excavated material will be transported directly to one of the followings

- a) If the soil is suitable for embankment works, it will be transported to embankment area.
- b) If the soil is suitable for re-handling works of embankment, it will be stocked at permitted area and then re-handled.
- c) If the soil is not suitable, it will be dumped in the designated area.

Site investigation will be reported for the approval of disposal area at a suitable location. The areas where excavated soil is to be used would be laid to fine lines and levels, and then will be watered and compacted as per specifications.

4. Earthwork in embankment

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Author: [Signature]

Material

The material used in embankments shall be soil, moorum, excavated / dismantled material from roadway excavation and a mixture of these or any other material approved by Engineer, and shall be free of logs, stumps, roots, rubbish and any other ingredient likely to adversely affect the stability of the embankment.

The size of the coarse material shall ordinarily not exceed 75mm when being placed in the embankment and the maximum particular size shall not be more than two-thirds of the compacted layer thickness.

PROGRESSIVE CONSTRUCTIONS LIMITED will list the material of borrow pit in the quality control laboratory for the identification of right material and use the same material on approval of Engineer.

Operations

Setting out

- ❖ The limits of embankment will be marked by fixing batter pegs on both sides at regular intervals as guides before commencing the earthwork.

Compacting ground supporting embankment

- ❖ Where necessary, the original ground shall be levelled to facilitate placement of first layer of embankment, scarified, mixed with water

and then compacted by rolling so as to achieve minimum dry density as specified in the contract.

Spreading

- ❖ The embankment material will be spread and finished in layer of uniform thickness not exceeding 200mm compacted thickness over the entire width of embankment by dozer and motor grader.
- ❖ Moisture content of the material will be checked at the site of placement prior to commencement to compaction. And where water is required to be added,

Water will be sprinkled uniformly using water tanker fitted with sprinkler capable of applying water uniformly with a controllable rate of flow to variable widths of surface but without any flooding. The water will be thoroughly mixed in soil by blading, discing or harrowing until uniform moisture content is obtained throughout the depth of the layer.

Compaction

- ❖ The compaction will be done with the help of vibratory roller or 8~10 ton static weight with plain drum capable of achieving required compaction.
- ❖ PROGRESSIVE CONSTRUCTIONS LIMITED will demonstrate the efficacy of the equipment to be used carrying out compaction trials and the procedures to be adopt for these site. Such trials will be submitted to the Engineer for approval.
- ❖ Each layer of the material will be thoroughly compacted to the densities specified in the contract specification as following;

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- Relative compaction of Embankment shall be not less than 95% of MLDD (Maximum Laboratory Dry Density).

5. capping layer with natural granular material

Material

The material used in capping layer shall be natural moorum and shall be free of logs, stumps, roots, rubbish and any other ingredient likely to adversely affect the stability of the embankment.

The size of the coarse material shall ordinarily not exceed 50mm when placed in the sub grade, and the maximum particular size shall not be more than two-thirds of the compacted layer thickness.

The material to be used in sub grade as capping layer should have a minimum CBR value of 5-7% at 97% of MDD. PROGRESSIVE CONSTRUCTIONS LIMITED will list the material of borrow pit in the quality control laboratory for the identification of right material and use the same material on approval of Engineer.

Operations

Setting out

- ❖ The limits of sub grade will be marked by fixing batter pegs on both sides at regular intervals as guides before commencing the earthwork.

Spreading

- ❖ The sub grade material will be spread and finished in layer of uniform thickness not exceeding 200mm compacted thickness over the embankment by dozer and motor grader.
- ❖ Moisture content of the material will be checked at the site of placement prior to commencement to compaction. And where water is required to be added,

Water will be sprinkled uniformly using water tanker fitted with sprinkler capable of applying water uniformly with a controllable rate of flow to variable widths of surface but without any flooding. The water will be thoroughly mixed in soil by blading, discing or harrowing until uniform moisture content is obtained throughout the depth of the layer.

Compaction

- ❖ The compaction will be done with the help of vibratory roller of 8~10-ton static weight with plain drum capable of achieving required compaction.
- ❖ PROGRESSIVE CONSTRUCTIONS LIMITED will demonstrate the efficacy of the equipment to be used carrying out compaction trials and the procedures to be adopt for these site. Such trials will be submitted to the Engineer for approval.
- ❖ Each layer of the material will be thoroughly compacted to the densities specified in the contract specification as following:

- Relative compaction of sub grade shall be not less than 97% of MDD.

6. cement stabilized natural granular sub base

Material

The material to be used for natural Granular Sub-base shall be mix of natural moorum and cement. The material shall be free from organic or other deleterious constituents and conforming to the specified grading in technical specifications.

Prior to actual execution of the work, it will be ensured that the material to be used in sub-base satisfies the requirement of minimum CBR value of 30 % after mixing max.3% of cement stabilizing agent and the other physical requirements when compacted and finished.

Operations

Preparation of subgrade

- ❖ Immediately prior to the laying of sub-base, the subgrade already finished shall be prepared by removing all vegetation and the other extraneous matters.

Spreading

the subbase material or grading specified in the specification will be transported from source by tippers and spread, finished in layer of uniform thickness not exceeding 200 mm compacted thickness over the entire width of sub-base by motor grader. After spreading of sub base material, the stabilizing agent shall be spread uniformly over the full width of the layer to the required quantity. Immediately after the stabilizing agent has been spread, it shall be mixed with sub base material for the full depth of treatment. Mixing shall be done by grader or rotary mixer.

Watering

Immediately after the stabilizing agent has been properly mixed with the material, the moisture content of the material shall be determined and required amount of water to make the mixture attains optimum moisture content. water will be added by means of water tank fitted with sprinklers.

Compaction

- ❖ The compaction will be done with the help of vibratory roller capacity 8~10-ton static weight with plain drum of adequate capacity of achieving required compaction.
- ❖ PROGRESSIVE CONSTRUCTIONS LIMITED will demonstrate the efficacy of the equipment to be used by carrying out compaction trials and the procedure of such trials will be submitted to the Engineer for approval.

- ❖ Each layer of sub-base will be thoroughly compacted to the densities specified in the contract specification as following;
- ❖ Relative compaction of Sub-base shall be not less than 95-96% of MLDD (Maximum Laboratory Dry Density)

Curing

The stabilized layer will be protected against rapid drying out for at least seven days following completion of the layer by spraying with water at frequent intervals.

7. Cement stabilized natural granular base course

Material

The material to be used for natural Granular base shall be mix of natural moorum and cement. The material shall be free from organic or other deleterious constituents and conforming to the specified grading in technical specifications.

Prior to actual execution of the work, it will be ensured that the material to be used in sub-base satisfies the requirement of minimum CBR value of 80 % after mixing max.5% of cement stabilizing agent and the other physical requirements when compacted and finished.

Operations

Preparation of sub base

* Immediately prior to the laying of base, the sub-base already finished shall be prepared by removing all vegetation and the other extraneous matters.

Spreading

❖ The base material of grading specified in the specification will be transported from source by tippers and spread, finished in layer of uniform thickness not exceeding 200 mm compacted thickness over the entire width of base by motor grader. After spreading of base material, the stabilizing agent shall be spread uniformly over the full width of the layer to the required quantity. Immediately after the stabilizing agent has been spread, it shall be mixed with base material for the full depth of treatment. Mixing shall be done by grader or rotary mixer.

*Watering**

Immediately after the stabilizing agent has been properly mixed with the material, the moisture content of the material shall be determined and required amount of water to make the mixture attains optimum moisture content. Water will be added by means of water tank fitted with sprinklers.

Compaction

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- ❖ The compaction will be done with the help of vibratory roller capacity 8~10-ton static weight with plain drum of adequate capacity of achieving required compaction.
- ❖ PROGRESSIVE CONSTRUCTIONS LIMITED will demonstrate the efficacy of the equipment to be used by carrying out compaction trials and the procedure of such trials will be submitted to the Engineer for approval.
- ❖ Each layer of sub-base will be thoroughly compacted to the densities specified in the contract specification as following:
- ❖ Relative compaction of base shall be not less than 95-96% of MLDD (Maximum Laboratory Dry Density)

Curing

The stabilized layer will be protected against rapid drying-out for at least seven days following completion of the layer by spraying with water at frequent intervals.

8. Bituminous prime coat

Surface to be primed will be cleaned with broomer to remove fines and sprinkled with water over base course. Bituminous emulsion or other specified material will be used for priming. Bitumen primer will be applied over the already prepared surface by bitumen sprayer at the 0.9 lit per sqm.

9. Bituminous surface treatment

Material

The material to be used for bituminous surface treatment will be stone chippings and bitumen emulsion. The material shall be conforming to the specified grading in technical specifications.

Operations

- ❖ Immediately prior to the laying of stone chippings, bituminous binder at the rate of 1.4 lit per sqm will be sprayed over the primed base course with the help of bitumen sprayer.

Spreading

- ❖ The stone chippings of grading specified in the specification will be transported from source by tippers and spread by chip spreader, finished in layer of uniform thickness over the entire width of primed base course. Spreading operation will follow just behind bitumen sprayer.

Compaction

As soon as the chippings have been applied, initial rolling will commence with a self propelled pneumatic-tired roller with a loading 2.0 tones per wheel as per specifications until the whole surface has been covered at least three times with the wheels of the roller. After the bituminous binder has set up sufficiently to prevent any chipping from being dislodged, the surface shall be slowly dragged with broom drag in order to ensure even distribution of the chippings. The surface

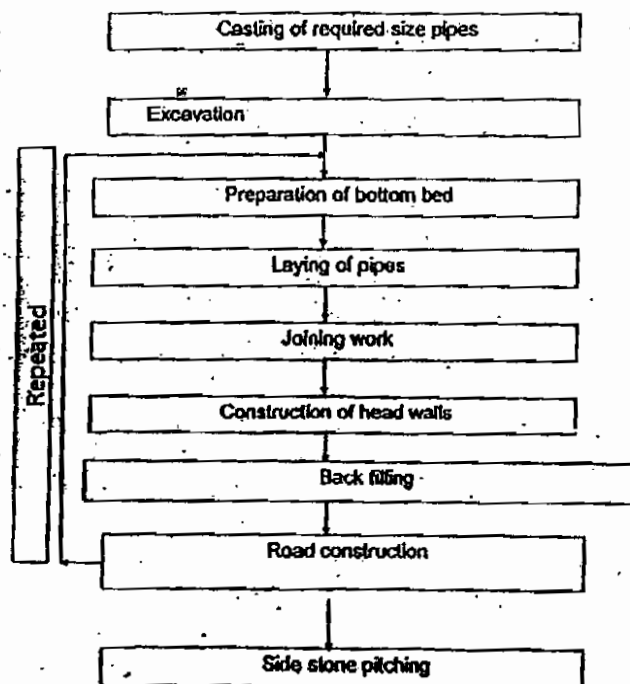
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will be rolled finally with the pneumatic tyre roller until the whole surface has been covered at least four times with the wheels of the roller. The surface shall be well knit and have a uniform appearance free of roller tire marks.

10. RCC pipe Culverts

The general flow chart for the construction of new RCC Hume pipe culverts is indicated below.



11. Drainage and Protective Works

The drainage & protective works shall be executed simultaneously in as many fronts as possible to complete these activities along with the pavement progress.

12. Quality Control

A Central Laboratory will be established near the camp. The Central Laboratory will be fully equipped in order to carry out all the tests as per the Specification and Experienced Personnel should be entrusted for Quality Control tests.

At site field quality control tests should be performed as per Specifications and each and every layer shall be tested in presence of the Department Engineers and stage passing record will be maintained.

13. Safety

Special measures will be taken keeping in view of site safety requirements. Cautionary boards, Barricades, Red flags, Red Lamps, Diversion boards etc. will be adequately used at the work spots.

14. Pollution Control

Adequate measures shall be adopted to maintain ambient air, water and noise level parameters recommended for road transportation developments. Special devices shall be installed to control and monitor the pollution from the plants and vehicles - operating in the project. All measures will be taken to ensure that the environment is not impacted beyond the permissible limits.

15. Miscellaneous items including facilities for the Employer & the Engineer

The Miscellaneous items will be executed stretch wise on substantial completion of that particular stretch keeping in view of the total completion of project. Facilities for the Employer and the Engineers shall be provided on top priority as per the specification and instructions from the Engineer.

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For Progressive Construction Ltd.

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CHAPTER 1 INTRODUCTION

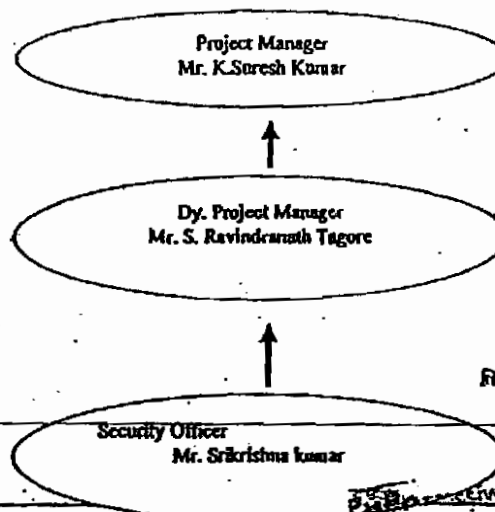
General

The Quality Assurance Manual aims at laying down a system for the quality assurance of works. This involves:

- Adoption of correct work methodology.
- Selection and use of specified plants
- Use of approved specified materials and their periodical testing as laid down
- Testing of completed stages of work
- Approval of completed works.
- Use of standard forms and maintenance of proper records of checks/tests conducted.

The quality control system for materials and completed works shall also include sampling methods and criteria and acceptance criteria. This manual covers the laid down specifications for materials to be used in each stage of construction, a summary of acceptance criteria for such works, periodicity of testing and certain standard forms proposed to be used in the pro

Organization chart



Quality Assurance Plan

CHAPTER 2

QUALITY SURVEILLANCE

General

- 2.1 The works in this project are governed by Contract Technical Specifications consisting of General Specifications and Special Specifications. The General Specifications for road, bridge and ancillary works shall be the "Ministry of transport and roads Government of Southern Sudan specifications. The Special Specifications Comprise various Amendments/ Modifications to the GOSS Specifications and Additional Specifications for particular items of works not covered in GOSS Specifications.
- 2.2 The quality surveillance will be through a system of checks to ensure use of correct materials, adoption of specified work methodologies, and stage approval of completed stages of works based on acceptance criteria.
- 2.3 Materials: All major items of materials and their source will be got approved in accordance with the relevant Specifications, before commencing procurement action. The major items being.
- Course Aggregate
 - Fine Aggregate
 - Steel
 - Cement
 - Bitumen emulsion
 - NP-3 hume pipes
 - Soil borrows
 - Natural granular morum for sub grade, sub base and base course

For Promissive Constructors Ltd.

Quality Assurance Plan

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2.3.1. These materials shall be periodically checked for quality as per the laid down test series in series 10000 of GOSS Specifications. Reliance on test certificates of manufacturers will be judicious and reassured through independent testing.

2.4. Work Methodology: The work methodology for all important stages of works in accordance with the General Specifications will be submitted for approval well in advance. These proposed work methodologies shall be according to the provisions in the Contract Specifications and experience of similar works in other project. The methodologies shall be formally got approved before being put into practice. A Central Field Laboratory is proposed to be established at each of the base camps. All samples collected from the site, plants and materials procured from the trade shall be tested in these labs. Each sub group in the field will be made responsible for collection of samples for testing in the Laboratory as well as tests to be done in situ. The field and the central laboratory staff will work as a team to achieve required quality assurance.

2.5. Test Trials : Wherever specified, test trials shall be conducted to check the efficacy of accepted work methodology. These shall be especially relevant to bituminous works and stabilization work to establish the correct pattern of rolling to achieve the specified compaction.

2.6. Plants and Equipments: All the major and important plants proposed to be mobilised or Inducted shall be checked to ensure that these conform to the laid down acceptance parameters of the specifications.

2.7. Stage Approval of works: All completed stages of works like, layers of embankment, subgrade and pavement layers shall be offered to consultants for testing and stage approval. Work on the next layer will be taken up only when the lower layer has been approved. A record of all their approvals shall be maintained.

2.8. Daily Job Requests: We shall submit our daily work programme in the form of Job Requests at least a day in advance. Based on the work programme and check requests by us, deployment of the consultants staff could be accordingly planned. The aim being that all works are supervised and completed works get tested/checked for prompt stage approval.

Quality Assurance Plan

- 2.9 Site Order Books: The observations of the supervision staff is generally conveyed to the site representatives of the contractor for prompt corrective measures or compliance. An official formal note in such matters follows but it may take time and could loose relevance. To overcome these problems, we proposed to have "Site Order Books" available at site for recording of observations regarding quality or even to pass instruction for compliance or recording decision. The follow up actions taken by us would also be recorded.
- 2.10 Field Laboratory: A fully equipped central laboratory will be established at the base camp. The site executives would be equipped with equipments to determine field densities, moisture contents, slumps etc. The aim being all tests/check as specified is conducted at regular intervals.

CHAPTER 3

SURVAILLANCE TO QUALITY: CHECK LIST

It is essential that every member of the Contractor's Supervision Team is not only aware of the contractual requirements of quality assurance parameters, for different stages of the work, but these are honestly implemented. Doing the same task every day can lead to a sense of complacence. To prevent this situation and to make it easier for the supervision team to exercise all the laid down checks, a check list has been prepared and is enclosed for the following stages of works. These checks lists will be available with the site staff for reference.

- Embankment Fill and Sub Grade.
- Sub Base
- Base course
- Asphalt surface treatment work
- Concerting Work

Activity Flow diagrams for major work items of embankment, sub grade, base course, Asphaltic work and concreting has been also prepared and is enclosed. These clearly lay down the sub activity elements, their sequence and inter-relation with emphasis on quality assurance checks.

CHAPTER 4

QUALITY CONTROL PLAN

There are two aspects of quality control, namely

- (a) Control of alignment and surface regularity, and
- (b) Quality control tests during construction

Based on the contract specifications, various checks and tests to be carried out, their periodicity, testing procedure and acceptance criteria have been compiled for ease of site executives. These are enclosed as Quality Control Plan in the following form.

Part A of the plan deals with the aspect (a) and shows permissible tolerances and the manner of rectification of surface irregularity if any.

Part B of the plan covers the aspect (b) and describes briefly the requirement of the specifications for various items of the work, related specification clauses, tests required, their frequencies and the relevant codes.

In either case, it is important that the construction of subsequent layer of same or other material over any finished layer should not be done without the Engineer's permission. Similar permission from the Engineer is required in respect of all other items of work prior to proceeding with the next stage of construction. The quality control plan is enclosed from page 22 to 24 and has been prepared based on contract specification clauses 113; 902 and 903.

QUALITY CONTROL PLAN

Part - A: Control of Alignment Level and Surface Regularity

All work done shall conform to the lines, grades, cross sections and dimensions as shown on the drawings or as directed by the Engineer subject to the permitted tolerances described below :

Quality Assurance Plan

For *Dr. Arun Kumar* Construction Ltd

K. S. S.
Authorised Signatory

Sl. No	ITEM	Clause	Tolerance (mm)
1.	Horizontal alignment as reckoned with the reference to the center line of the carriageway and as shown on drawing. (i) edges of the carriageway (ii) Edges of the roadway and lower layers of pavement.	relevant	 ± 10 ± 25
	Surface Levels Levels of sub grade and different pavement courses (with reference to the longitudinal and cross profile to the road shown on the drawings) I. Sub grade II. Sub Base	relevant	 $+20$ -25 -20
	III. Base Course		± 10

Quality Assurance Plan

Eas. P. Ramesh Construction Ltd.

K. R. S.

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3. Surface Regularity of Sub grade and Pavement Courses

The longitudinal profile shall be checked with a three meter long straight edge at the middle of each traffic lane along a line parallel to the center line of the road. The cross profile shall be checked with a set of three camber boards at intervals of 10 meters –

The maximum allowable difference between the road surface and underside of a 3m straight edge when placed parallel or right angles to the center line of the road at points decided by Engineer shall be :

- Granular base / sub bases : 8mm

QUALITY CONTROL PLAN

Part – B: Quality Control Tests

The Testing frequencies given in technical specifications will be carried out accordingly.

For Production Construction Ltd.

Quality Assurance Plan

For Production Construction Ltd.

Key

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Safety and Security Plan

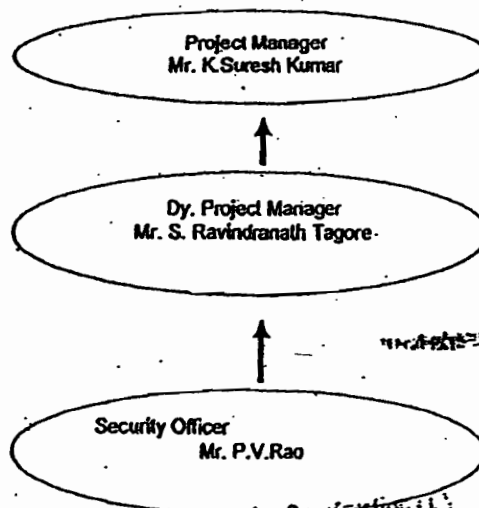
1.0 Introduction

The most important considerations for the construction are to provide / maintain proper procedures for personnel safety and property loss prevention. Safety / Security rules and regulations itself alone are not sufficient to eliminate accidents and loss. The continuous attention to follow rules/regulations and cooperation of staffs, supervisors and craftsmen to prevent the accidents and loss are required to achieve the safety and security in success. To serve as a general guidance in promoting safe practices and to help reduce hazard and eliminate accidents which accompany injuries of personnel and damages to properties this plan is provided. Detailed procedures will be established during the construction mobilization period and instructed to all personnel before mobilization to the jobsite. Implementation of detailed safety and security procedures that have been upgraded to comply with the client and local government requirements is required for the successful performance of the construction. The procedures will be submitted to the client for review and approval prior to start of the construction.

2.0 Organization and Responsibility

The organization for safety/security is under the direct control of the Construction Manager. The responsible managers and supervisors enforce safety/security procedures by spending much time on the work site to ensure that each man is working in a safe manner and using safe tools and equipment with the first priority to all construction activities because the safe way is the correct and efficient way to perform the work in success.

Organization chart



Engr. B. Suresh Kumar, Project Manager

K. Suresh

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Safety / Security Manager

Under the direction of the Construction Manager, he is responsible for:

- Providing for detailed procedures in compliance with the client's and local governmental requirements.
- Assisting of local purchasing personnel in procurement of safety, fire protection, medical and security equipment and supplies.
- Appointment of safety / security supervisors and insurance of safety/security implementation in accordance with procedures.
- Maintenance of current knowledge of all applicable the client's and local governmental safety, health, fire protection and security standards and regulations. Maintenance of good relationship with supervisors and subcontractors, and also liaison with the client's representatives and local authorities.
- Conducting investigation of accidents, analyze causes and provide recommendations for corrective and preventive actions.
- Conducting safety meetings with concerned personnel.
- Advice of safety/security progress and any unsolved problems in timely manner to the Construction Manager.
- Preparing the required reports and maintaining of records.

2.2 Safety / Security Supervisor

Under the control of the Safety Engineer, he is responsible for:

- Daily inspection of the work site.
- Training new employee the safety/security procedures and the guidelines to be taken.
- Detail review with the construction supervisors for major erection work to make sure that all precautions are taken to maintain safety.
- Monitoring all infringements to procedures and requesting to initiate the required corrective action.
- Preparing and maintaining updated lists of insurance for vehicles and construction equipment.
- Assurance of the validity of operator's / driver's work permit / license for the particular equipment and vehicles.
- Regular inspection of the construction equipment, tools and safety/security gear.

and facilities.

- inspection of accommodation / site facilities for fire protection, sanitation and first aid.
- Reporting details of related matters with safety / security to the Safety Engineer.

3.0 Actions to be taken

3.1 Personal Protection

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AWB